



**Structural Criteria for Express Solar PV
Permitting of One and Two Family Dwellings
(10 kW or Less)**

This criterion is intended to provide prescriptive structural requirements in lieu of site specific structural engineering from a California Licensed Design Professional for small residential rooftop solar PV systems 10 kW or less.

General Requirements:		Y	N
A	Solar PV rooftop system will be installed in areas with a basic design wind speed of 110 MPH	<input type="checkbox"/>	<input type="checkbox"/>
B	The roof has a pitch of 6 in 12 or less	<input type="checkbox"/>	<input type="checkbox"/>
C	The solar array is roof-mounted on a one- or two-family dwelling	<input type="checkbox"/>	<input type="checkbox"/>
D	The racking system includes a California Engineering Certification or an equivalent approved research report	<input type="checkbox"/>	<input type="checkbox"/>
E	Space between roof finish and bottom of solar modules is between 2" to 10" maximum	<input type="checkbox"/>	<input type="checkbox"/>
F	The plane of the modules (panels) is parallel to the plane of the roof	<input type="checkbox"/>	<input type="checkbox"/>
G	The roof has a single roof cover (finish) without any additional overlays	<input type="checkbox"/>	<input type="checkbox"/>
H	The roof has been investigated and is structurally sound, without signs of defect, sagging, or any substandard conditions	<input type="checkbox"/>	<input type="checkbox"/>
I	The arrays cover no more than 50% of the roof area	<input type="checkbox"/>	<input type="checkbox"/>
Structural Requirements:		Y	N
A	The modules (panels) plus support (racking system) weigh no more than 4 pounds per square feet (PSF)	<input type="checkbox"/>	<input type="checkbox"/>
B	Maximum spacing between supports (stand offs) in each direction is 4 ft. with their layout shown on the roof plan	<input type="checkbox"/>	<input type="checkbox"/>
C	Anchor fasteners (lag screws) are 5/16" inch diameter with a minimum penetration of 2 ½ inches into existing roof framing members	<input type="checkbox"/>	<input type="checkbox"/>
D	Size of existing roof rafters are at least 2 x 4 DF #2 or better @ 24" o.c. max	<input type="checkbox"/>	<input type="checkbox"/>
E	Roof sheathing is at least 7/16 inch plywood, OSB, or 1 inch skip sheathing	<input type="checkbox"/>	<input type="checkbox"/>

Note: This criterion is intended for an express solar permitting process without structural engineering. If any items are checked NO, please revise plans to fit within the eligibility checklist; otherwise supporting structural design may be required from a California Licensed Design Professional.

Project Address: _____

Applicant Signature: _____